Attorney Docket No.: 7051522001

APPENDIX I

Attorney's Docket No.: <u>705152-2001</u> Application No.: <u>10/589,751</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
Francese GIANCARLO et al.)	Group Art Unit: 1614
Application Serial No.: 10/589,751)	Examiner: Savitha M. RAO
Filed: August 17, 2006)	Confirmation No.: 9535
For: A PROCESS FOR THE PREPARATION OF CRYSTALLINE (6RS)-N(5)-FORMYL-5,6,7,8- TETRAHYDROFOLIC ACID)))	

DECLARATION UNDER 37 CFR.1.132

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

I, Fabrizio Marazza, declare as follows:

- The diastereoisomeric purity of (6S)-Folinic Acid and of the (6S)-Sodium Folinate or
 (6S)-Potassium Folinate solution derived there from is determined only by the
 diastereoisomeric purity of the starting material (6S)-Calcium Folinate. At the same time
 the diastereoisomeric purity of (6S)-Calcium Folinate is determined only by the
 diastereoisomeric purity of the precursor (6S)-5,6,7,8-Tetrahydrofolic Acid. The
 isomeric purity as such does not change during this transformations, i.e., formylation, of
 (6S)-5,6,7,8-Tetrahydrofolic Acid and salt formation of the obtained (6S)-Folinic Acid.
- In example 2 of the US Patent Application No. 10/589,751 it is stated that (6S)Calcium Folinate is "prepared according to EP 600 460 and NO 172 492". EP 600 460

corresponds to U.S. Patent No. 5,489,684. U.S. Patent No. 5,489,684 discloses in claim 1 that the (6S)-5,6,7,8-Tetrahydrofolic Acid has a diastereoisomeric purity of "at least 75%". In Example 1, at column 4, line 13 of U.S. Patent No. 5,489,684, the diastereoisomeric purity is described as "80.5%". In Example 2, at column 4, line 29 of U.S. Patent No. 5,489,684 the diastereoisomeric purity is described as "93%". Accordingly, the diastereoisomeric purity of the (6S)-Sodium Folinate or (6S)-Potassium Folinate solution prepared according to EP 600 460 and NO 172 492 will be at least 75%.

3. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code.

F. Marroe

Fabrizio Marazza, PhD IP manager Cerbios-Pharma SA Barbengo, Augint 24, 2010

Attorney's Docket No.: <u>705152-2001</u> Application No.: <u>10/589,751</u>

APPENDIX II

Attorney's Docket No.: <u>705152-2001</u> Application No.: <u>10/589,751</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

)
) Group Art Unit: 1614
) Examiner: Savitha M. RAO
) Confirmation No.: 9535
)))

DECLARATION UNDER 37 CFR.1.132

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

I, Fabrizio Marazza, declare as follows:

- During the period prior to filing of Swiss Patent Application No. 00285/04 (having the
 priority date of February 20,2004), from which subject United States application was
 derived, I was the supervisor (R&D director) of both co-inventors of the subject
 application, i.e., Dr. G. Francese and M. Morosoli. Dr. G. Francese left the company few
 years ago. M. Morosoli is a technician still active at Cerbios-Pharma SA.
- Several experiments were performed in order to find a suitable method of preparing (6S)folinic acid. As stated in the US Application No. 10/589,751, several attempts to
 reproduce Example 6 of EP 0 293 751 (by Müller et al.), corresponding to U.S. Patent
 No. 6,160,116, always led to an untreatable, rubber like product.

- A copy of the description of one of the experiments mentioned under point 2 is enclosed
 (a lab-journal page in Italian language). An English translation of this text is also
 enclosed.
- 4. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code.

F. Waraua Fabrizio Marazza, PhD

IP manager Cerbios-Pharma SA Barbengo, August 24, 2010

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English translation of the lab-journal page no. 2246 (Notebook No. 23) / December 15, 2003 by Moreno Morosoli

(The relevant description starts at line 5)

Test of direct precipitation of Folinic Acid from a solution of (6S)-CaF

1. (6S)-CaF (CJ0834):

11.5 g (= 10 g dry)

H₂O (seralpure quality):

300 ml

3 HCI 0.5N

1. was dissolved in 2. at 58°C, pH 7.51. Solution was cooled to 10°C resulting in a clear solution. pH=8.23. During 30 min. under stirring 3. was added reaching a pH value of 3.0 (T=9.7°C). The mixture was stirred further during 30 min. addiing 0.5 N HCl to keep the pH value at 3.0 and then the suspension was stirred for another hr (T=10°C). Filtration (D2) and washing with 50 ml of H₂O gave an hygroscopic sticky solid. A tentative resuspension of this solid in acetone resulted in a rubberlike untreatable product.

"analysis" in folder No. 12

Translated by F.Marazza / July 29, 2010

F. Warazza